

From: Davis, Minh-Tam 11/27
 Sent: Friday, November 22, 2002 3:27 PM
 To: STIC-Biotech/ChemLib
 Cc: O'Bryen, Barbara
 Subject: Search request for 09/555342

no size limited

Hi Barb,

Could you do me a big favor and search this case for me, since it is complicate? This case will not be due until next biweek.

Please search in commercial database and in issued patent files. Please note this is not a search for primers, but rather a nucleic acid sequence flanked by two primers. Since the following primers are obtained from SEQ ID NO:1, if one knows the position of the nucleotides of the primers, one could also search for a sequence from SEQ IS NO:1, encompassing the outer nucleotide positions obtained from the primers.

- 1) A nucleic acid molecule obtained by PCR, using primers having SEQ ID NOS: 21 and 22. ✓ OS
- 2) A nucleic acid molecule obtained by PCR, using primers having SEQ ID NOS: 13 and 14. ✓
- 3) A nucleic acid molecule obtained by PCR, using primers having SEQ ID NOS: 16 and 18. — sense strand
- 4) A nucleic acid molecule obtained by PCR, using primers having SEQ ID NOS: 16 and 19. ✓
- 5) A nucleic acid molecule obtained by PCR, using primers having SEQ ID NOS: 20 and 19. ✓
- 6) A nucleic acid molecule obtained by PCR, using primers having SEQ ID NOS: 15 and 17. — ant. sense strand

Thank you.

MINH TAM DAVIS

ART UNIT 1642, ROOM 8A01, MB 8E12
 305-2008

seq 13 & 14 seq 20
 151 = 432
 151 - 2501
 1352 - 2501
 1733 - 2501
 seq 16 & 19
 seq 20 & 19
 seq 21 & 22
 1352 - 1373
 1733 - 1752
 685 - 704
 151 - 170
 151 - 170

14 413 - 432
 15 271 - 294
 17 973 - 1003
 19 2482 - 2501
 22 2482 - 2501

seq 21 + 22 = (20 + 20) = 40 residues
 13 + 14 = (20 + 20) = 40 "
 16 + 18 = (20 + 20) = 40 "
 16 + 19 = (20 + 20) = 40 "
 20 + 19 = (20 + 23) = 43 "
 15 + 17 = (25 + 29) = 54 "

RECEIVED
 NOV 22 2002
 STIC

month date
 1997

6/2000
 in seq 21 & 22

Searcher: P. Schreiber
 Phone: 308-4292
 Location: CM 6A03
 Date Picked Up:
 Date Completed: 12/4
 Searcher Prep/Review: 5
 Clerical:
 Online time: 63

TYPE OF SEARCH:
 NA Sequences: 16
 AA Sequences:
 Structures:
 Bibliographic:
 Litigation:
 Full text:
 Patent Family:
 Other:

VENDOR/COST (where applic.)
 STN:
 DIALOG:
 Questel/Orbit:
 DRLink:
 Lexis/Nexis:
 Sequence Sys.: IG Compugen
 WWW/Internet:
 Other (specify):

THIS PAGE BLANK (USPTO)

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 23 Optimized Score = 23 Significance = -0.20
Residue Identity = 100% Matches = 23 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

1310 1320 1330 1340 1350 X 1360 1370
CGCCGGGAGCGGGTCCGACCGAGCCCTGCGCCGAGGAGAGCGCCGGGTAAACAAGCAGCGGACGG
|||||
CGGGTAACAAGCAGCGGACGG X 10 20

X 1380 1390 1400 1410 1420
ACCCGCTCGCGCCCGAGGAGGAGGAGGTCGTTAAGGATAGGAC
|
A
X

3. US-09-555-342B-1 (1-3442)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, YUKIO
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555, 342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 20 Optimized Score = 20 Significance = -0.21
Residue Identity = 100% Matches = 20 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

1690 1700 1710 1720 1730 X 1740 1750 X
TAAGGAAGTGTACACCGGAGCGACATATCTGAGGATCTCGAAGTATCACTTCGTGGTTTCAGAGCAC
|||||
TCACCTCGTGGTTTCAGAGC X 10 20

1760 1770 1780 1790 1800
ACTGACAAAGAGGAGCGCATCTCCGGAAGCACTGAAAGTCTCATATT

4. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, YUKIO
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555, 342B
CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 18

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 20 Optimized Score = 20 Significance = -0.21
Residue Identity = 100% Matches = 20 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

640 650 660 670 680 X 690 700 X
TCGTGGAAATTCACCATTAACCATTTGGACAACACCAGCAGAAATCAGATTTCCAGCTCTTAGAGATTGCC
|||||
TTCCAGCTCTCTAGAGATTGC X 10 20

710 720 730 740 750
GTCGGCTAGAGATGATGGAATCCGGTTGCACCCGCGCAAGACAGGG

5. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, YUKIO
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555, 342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 16
LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 20 Optimized Score = 20 Significance = -0.21
Residue Identity = 100% Matches = 20 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

110 120 130 140 150 160 X
AAAAATCGGGATCAGTACCTTGGAACTGGACAGAGCGCCCAACACTTCAGGAAAACCTGTGTCCA
|||||
CCTTCAGGAAAACCTGTGTGC X 10 20

180 190 200 210 220
TCAAAATCCAGATGCTGGATGACACCCAGGAGGCATTTGAAGTTCCAC

6. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, YUKIO
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13

LENGTH: 20
TYPE: DNA

ORGANISM: Artificial sequence
FEATURE:

OTHER INFORMATION: probe

Initial Score = 20 Optimized Score = 20 Significance = -0.21
Residue Identity = 100% Matches = 20 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

110 120 130 140 150 160 X
AAAATTCGGGGATCAGTACCTTGGAACTGGACAGAGCGCCGCCCAACACCTTCAGGAAACTCGTGTCCA
|||||
CCTTCAGGAAACTCGTGT
X 10 20

180 190 200 210 220
TCAAAATCCAGATGCTGGATGACACCCAGGAGGCATTTGAAGTTCCAC

7. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 17, Application US/09555342B

Sequence 17, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 17

LENGTH: 29

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 14 Optimized Score = 15 Significance = -0.22
Residue Identity = 37% Matches = 19 Mismatches = 10
Gaps = 8 Conservative Substitutions = 0

70 80 90 100 110 120 130
GAGGCGGACCCAGGATCAGCATCGACTGGGGCCCGGAAATTCGGGGATCAGTACCTTGGAACTGGACAGAA
|||
AAACGGAAGAAAGTGT---TGRT
X 10

140 150 X 160 170 180 190 200
GCGGCCCCACACACTTCAGGAAACTCGTGTCCATCAAAATCCAGATGCTGGATGACACCCAGG

|||
G-----YTCWACACA

20 X

8. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 12, Application US/09555342B

Sequence 12, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 13 Optimized Score = 14 Significance = -0.22
Residue Identity = 71% Matches = 15 Mismatches = 5
Gaps = 1 Conservative Substitutions = 0

90 100 110 120 130 140 X
ATCAGACTGGGGGCCCGGAAATTCGGGGATCAGTACCTTGGAACTGGACAGAGCCGCCCAACACC
|||||
CACAGACCCAGTCCCAAC-AC
X 10 20

160 170 180 190 200
TTCAGGAAACTCGTGTCCATCAAAATCCAGATGCTGGATGACACCCAG

9. US-09-555-342B-1 (1-3442)
US-09-555-342B-4 Sequence 4, Application US/09555342B

Sequence 4, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 13 Optimized Score = 14 Significance = -0.22
Residue Identity = 68% Matches = 15 Mismatches = 5
Gaps = 2 Conservative Substitutions = 0

460 470 480 490 500 X 510 520 X
TTCGCGCTGCAGGTGAAGCAGGACTTGGCTCAAGCAGGTTCACGTGTAAATCAGACCCAGCGAGCTCTCTTG
|||
TG--CCAGTTCAGGTCTCTTA
X 10 20

530 540 550 560 570
ATTTCACACATTGTGCAATCTGAGATTGGGATTTTGATGAAGCCTTGA

10. US-09-555-342B-1 (1-3442)

US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 12 Optimized Score = 12 Significance = -0.22
Residue Identity = 60% Matches = 12 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

ATCAGACTGGGGCCCGGAAATTCGGGATCAGTACCTTGAACGTGGACAGACAGAGCCGCCCAACACC
|||||
ATCAGACCCAGCTCCCAAG
X 10 20

160 170 180 190 200
TTCAGGAAACTCGTGTCCATCAAAATCCAGATCTGGATGACACCCA

11. US-09-555-342B-1 (1-3442)

US-09-555-342B-1 Sequence 15, Application US/09555342B

Sequence 15, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 15
LENGTH: 25
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 12 Optimized Score = 14 Significance = -0.22
Residue Identity = 60% Matches = 17 Mismatches = 8
Gaps = 3 Conservative Substitutions = 0

2390 2400 2410 2420 2430 2440 2450
TGTTCTTCTGTTCAAGACGCTCCTGCTATACAGCGCGGGGCTGACGCCCTCCCAATCATGTTTAAAGTCC
|||||
GCC-AAAT-AG-TCACCTTCC
X 10

2460 2470 2480 2490 2500
ACGGGCACTCCCGTCTATGGCATGACGATTGAGGAGCGAAGACGAGTGGGGG

|||||
ACGAGG
20 X

12. US-09-555-342B-1 (1-3442)
US-09-555-342B-3 Sequence 3, Application US/09555342B

Sequence 3, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 25
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 12 Optimized Score = 15 Significance = -0.22
Residue Identity = 60% Matches = 17 Mismatches = 8
Gaps = 3 Conservative Substitutions = 0

2180 2190 2200 2210 2220 2230 2240
ACTTCAGGAGTGCAGCGCCCTTTGGCAGAGATCAGGAGATGGTGGCACAGTCCACGTCACGATGATCA
|||||
CA--TAC-CGGTAAGTGGGCA
X 10

2250 2260 2270 2280 2290 2300
AGATGGAGAAATTCAGAGAGCTGCACGAACCTCAAGAAAGATTTGATTGGCATTCGAC
|||||
AGACTG
20 X

13. US-09-555-342B-1 (1-3442)

US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 9
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 10 Optimized Score = 13 Significance = -0.22
Residue Identity = 65% Matches = 17 Mismatches = 2
Gaps = 7 Conservative Substitutions = 0

1880 1890 1900 1910 1920 X 1930 1940
GGGAAGCGCGCTCAATGCCCCAATCAGAGATTACCAAGAATCGCGGATGTC-ATGCTGAAGAACATTCAG
||| | |||| |||||
GTCAAGGCTG-AGAAC-----G
X 10

X 1960 1970 1980 1990
GGCATGAAGACCTGGCGGCTCACCTGTGTGAAGCACAGCGAGGCCTTGGAGGCC
||| |
GGAA 20

14. US-09-555-342B-1 (1-3442)
US-09-555-342B-8 Sequence 8, Application US/09555342B

Sequence 8, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 8

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 10 Optimized Score = 13 Significance = -0.22
Residue Identity = 66% Matches = 16 Mismatches = 4
Gaps = 4 Conservative Substitutions = 0

820 830 840 850 860 X 870 880
CTAAGATCAATGCCCTCAACTGGGCCAAGGTCGGAAGCTTCAAGAGGAAGCGGCTTTCTCATCAAGC
||| | |||| |||||
ATGAA---CTTCTTCA-CCAGC
X 10

X 900 910 920 930
TCCGGCCAGATGCCAATAGTGCGTACCAGGATACCTTGGAAATTCCTGATGGC
||| |
TC 20

15. US-09-555-342B-1 (1-3442)
US-09-555-342B-6 Sequence 6, Application US/09555342B

Sequence 6, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 6

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 10 Optimized Score = 12 Significance = -0.22
Residue Identity = 58% Matches = 14 Mismatches = 6
Gaps = 4 Conservative Substitutions = 0

210 220 230 240 250 260 270 280
TTGAAGTTCACAAAGAGCTCTCTGGGAAGGTCTGCTGGATGCAGTTTCAACCACTCAACCTCGTGAAG
|| | ||||| |||||
AAAGACCTCACCTC-----CAT
X 10

X 290 300 310 320 330
GTGACTATTTTGGCCTCGAGTTTCTCTGATCACAAAAGATCACGGGTGGCT
|
CT 20

16. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 9 Optimized Score = 12 Significance = -0.22
Residue Identity = 59% Matches = 16 Mismatches = 4
Gaps = 7 Conservative Substitutions = 0

2850 2860 2870 2880 2890 X 2900 2910
GAGAAATCAGTTGCTCTGGAAACCTGCTGAGGAATTCAAAACAGCAACGGTGGCAGAGCTGTGGTGGTG
||| | ||||| |||||
TTGG----AGTTGTGTGTGG--
X 10

X 2930 2940 2950 2960
TTCACAAACTTCTGCTGTTCTTCTACAAATTCACACCAGGACAATCATCCCTTG
||| |
-TCAG
20

17. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 10, Application US/09555342B

Sequence 10, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 9 Optimized Score = 9 Significance = -0.22
Residue Identity = 45% Matches = 9 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

1210 1220 1230 1240 1250 1260 1270 X
GAGCAGTCTCAGCAGCAGCAGCCTTACATTGGAGAGGTGCGGAATCTCCAGGGGGCCAGAGCTCCGG
|||||
TCCACCAACCCTGTTGCTGTA
X 10 20

1280 1290 1300 1310 1320
CGAGGAAGGACCGAAGGTTCCCGCGGGAGCGGGTGCACCCG

18. US-09-555-342B-1 (1-3442)
US-09-555-342B-7 Sequence 7, Application US/09555342B

Sequence 7, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 9 Optimized Score = 12 Significance = -0.22
Residue Identity = 59% Matches = 13 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

3100 3110 3120 3130 3140 X 3150 3160 X
CAGGTTCGAAGGTGGTGAAGTATCCGAGTGCCACAGCTCTGCTCGCGACCCACGCTGTGTGAGCCA
||| ||||| |||||
GTCGA--TTACGTGGAGAGCTA
X 10 20

3170 3180 3190 3200 3210
CAAGAGTCTCTGTGTATGTATGGCCGCGACACACTCGTTTCCCGAGTGG

19. US-09-555-342B-1 (1-3442)
US-09-555-342B-2, Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 8 Optimized Score = 11 Significance = -0.22
Residue Identity = 53% Matches = 14 Mismatches = 6
Gaps = 6 Conservative Substitutions = 0

810 820 830 840 850 860 870 880
TTTCACTAAGATCAATGCTTCAACTGGCCCAAGGTGCGGAAGCTGAGCTTCAAGAGGAAGCGCTTTCTCAT
||| ||| ||| |||
TC----GTCTTCGC--TCTCCT
X 10

X 890 900 910 920 930
CAAGCTCCGGCCAGATGCCAATAGTGGCTACCAAGATACCTTGAATTCTCTGAT
|||
CAAT
20

20. US-09-555-342B-1 (1-3442)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 8 Optimized Score = 11 Significance = -0.22
Residue Identity = 53% Matches = 14 Mismatches = 6
Gaps = 6 Conservative Substitutions = 0

810 820 830 840 850 860 870 880
TTTCACTAAGATCAATGCTTCAACTGGCCCAAGGTGCGGAAGCTGAGCTTCAAGAGGAAGCGCTTTCTCAT
||| ||| ||| |||
TC----GTCTTCGC--TCTCCT
X 10

X 890 900 910 920 930
CAAGCTCCGGCCAGATGCCAATAGTGGCTACCAAGATACCTTGAATTCTCTGAT
|||
CAAT

THIS PAGE BLANK (USPTO)

PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 15
LENGTH: 25

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 6 Significance = 1.39
Residue Identity = 66% Matches = 6 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

X 10 20
GACACGAGTTTCTCCTGAAGG
|||||
GCCAAATAAGTACCTTCACGAGG
10 X 20 X

3. US-09-555-342B-13' (1-20)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 1.04
Residue Identity = 50% Matches = 9 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 20
GACACGAGTTTCTCCTGAAGG
|||||
TTGGAGTTGT-GTGTGGTCAG
X 10 X 20

4. US-09-555-342B-13' (1-20)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 22
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.69
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 X
GACACGAGTTTCTCCTGAAGG
|||
TCGTC-TTCGCTCTCCTCAAT
X 10 20

5. US-09-555-342B-13' (1-20)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.69
Residue Identity = 55% Matches = 11 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 X
GAC-ACGAGTTTCTCCTGAAGG
|||
TCACTTCGTGGTTT-CAGAGC
X 10 20

6. US-09-555-342B-13' (1-20)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 20
TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.69
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10
GACACGAGTTTCTCTGAAGG
||| |||||
TCGTC-TTCGCTCTCCTCAAT
X 10 20

7. US-09-555-342B-13' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOVANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 18

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.69
Residue Identity = 50% Matches = 9 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 20
GACACGAGTTTCTCTGAAGG
||| |||||
TTCCAG-CTCCTAGAGATTCC
X 10 X 20

8. US-09-555-342B-13' (1-20)
US-09-555-342B-1 Sequence 10, Application US/09555342B

Sequence 10, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOVANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 5 Significance = 0.69
Residue Identity = 31% Matches = 5 Mismatches = 11

Initial Score = 4 Optimized Score = 10 Significance = 0.69
Residue Identity = 55% Matches = 11 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 X
GACACGA--GTTTCTCTGAAGG
||| |||||
TCCACACCCTGTTGCTGTA
X 10 20

9. US-09-555-342B-13' (1-20)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOVANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.69
Residue Identity = 50% Matches = 8 Mismatches = 5
Gaps = 3 Conservative Substitutions = 0

X 10 20
GACACGAGT-TTTCCT--GAAGG
||| |||||
GTCAAGGCTGAGAACGGAA
X 10 X 20

10. US-09-555-342B-13' (1-20)
US-09-555-342B-8 Sequence 8, Application US/09555342B

Sequence 8, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOVANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 8

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Gaps = 0 Conservative Substitutions = 0

 X 10 20

GACACGAGTTTTCCTGAAGG

 ||| |

 ATGAACCTTCTCCACCAGCTC

 X 10 X 20

GACACGAGTTTTCCTGAAGG

 ||| |

 AAACGRAAGA-AYGTRTGTGTGTCWACACA

 10 20 X

11. US-09-555-342B-13' (1-20)

US-09-555-342B-4 Sequence 4, Application US/09555342B

Sequence 4, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-50250S

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.69

Residue Identity = 47% Matches = 9 Mismatches = 7

Gaps = 3 Conservative Substitutions = 0

X 10 X 20

GACACG----AGTTTTCCTGAAGG

 ||| |

 TGCCCAAGTTCAGGTCCTTA

 X 10 20

12. US-09-555-342B-13' (1-20)

US-09-555-342B-1 Sequence 17, Application US/09555342B

Sequence 17, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-50250S

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 17

LENGTH: 29

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 11 Significance = 0.69

Residue Identity = 40% Matches = 12 Mismatches = 7

Gaps = 1 Conservative Substitutions = 0

X 10 20

PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 16
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 0.24
Residue Identity = 50% Matches = 9 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 X
CTGACACACA-CACAACTCCAA
| | | | |
CCTTCAGGAAACTCGTGTC
X 10 20

3. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 0.24
Residue Identity = 50% Matches = 9 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 X
CTGACACACA-CACAACTCCAA
| | | | |
CCTTCAGGAAACTCGTGTC
X 10 20

4. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 10, Application US/09555342B

Sequence 10, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 0.24
Residue Identity = 45% Matches = 9 Mismatches = 10
Gaps = 1 Conservative Substitutions = 0

X 10 X
CTGACACACAC-ACAACCTCCAA
| | | | |
TCCACACCCCTGTTGCTGTA
X 10 20

5. US-09-555-342B-14' (1-20)
US-09-555-342B-6 Sequence 6, Application US/09555342B

Sequence 6, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.24
Residue Identity = 60% Matches = 12 Mismatches = 5
Gaps = 3 Conservative Substitutions = 0

X 10 X
CTGACACACACACAACTCCAA
| | | | |
AAAGACCTCAC---CCTCCATCT
X 10 20

6. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 17, Application US/09555342B

Sequence 17, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 17
LENGTH: 29

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 0.24
Residue Identity = 53% Matches = 10 Mismatches = 3
Gaps = 2 Conservative Substitutions = 0

X 10 X 20
CTGAC-CCAC-ACACAACTCCAA
|||||
AAACGRAAGAAAGTGTGTCWACACA
10 X 20 X

7. US-09-555-342B-14' (1-20)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KAWANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 22

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.00
Residue Identity = 45% Matches = 9 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

X 10 X
CTGACCACACAACTCCAA
|||||
TCGCTCGCTCTCCTCAAT
X 10 20

8. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KAWANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 19

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: probe

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.00
Residue Identity = 45% Matches = 9 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

X 10 X
CTGACCACACAACTCCAA
|||||
TCGCTCGCTCTCCTCAAT
X 10 20

9. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KAWANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 18

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.00
Residue Identity = 58% Matches = 7 Mismatches = 5
Gaps = 0 Conservative Substitutions = 0

10 X 20
CTGACCACACAACTCCAA
|||||
TTCCAGCTCTTAGAGATTGC
X 10 X 20

10. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 12, Application US/09555342B

Sequence 12, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KAWANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 11 Significance = 0.00

Residue Identity = 64% Matches = 11 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

X 10 20
CTGACCACACAACTCCAA
|| || || || || ||
CACAGACCCAGCTCCCAAC
X 10 X 20

X 10 X 20
CTGACCACACAACTCCAA
|| || || || || ||
GTCAAGGCTGAGAACGGAA
10 20

11. US-09-555-342B-14' (1-20)
US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 12 Significance = 0.00
Residue Identity = 70% Matches = 12 Mismatches = 5
Gaps = 0 Conservative Substitutions = 0

X 10 20
CTGACCACACAACTCCAA
|| || || || || ||
ATCAGACCCAGCTCCCAAG
X 10 X 20

12. US-09-555-342B-14' (1-20)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.00
Residue Identity = 53% Matches = 7 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3

LENGTH: 25
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 8 Optimized Score = 11 Significance = 0.90
Residue Identity = 52% Matches = 13 Mismatches = 10
Gaps = 2 Conservative Substitutions = 0

X 10 20 X
CCT-CGTGGAAG-GTGACTATTTTGGC
| | | | | | | | | |
CATACCGTAACTGGGGCAAGACTG
X 10 20 X

3. US-09-555-342B-15' (1-25)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 9 Significance = 0.54
Residue Identity = 52% Matches = 9 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

X 10 X 20
CCTCGTGGAGGTGACTATTTTGGC
| | | | | | | | | |
TCACCTCGTGGTTTCAGAGC
X 10 20

4. US-09-555-342B-15' (1-25)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 16

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 6 Significance = 0.54
Residue Identity = 66% Matches = 6 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

X X X 20
CCTCGTGGAGGTGACTATTTTGGC
| | | | | |
10 X 20
CCTTCAGGAAACTCGTGTC

5. US-09-555-342B-15' (1-25)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 6 Significance = 0.54
Residue Identity = 66% Matches = 6 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

X X X 20
CCTCGTGGAGGTGACTATTTTGGC
| | | | | |
10 X 20
CCTTCAGGAAACTCGTGTC

6. US-09-555-342B-15' (1-25)
US-09-555-342B-7 Sequence 7, Application US/09555342B

Sequence 7, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 7

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 8 Significance = 0.54
Residue Identity = 50% Matches = 10 Mismatches = 7
Gaps = 3 Conservative Substitutions = 0

X 10 X
CCTCGTGAAGGTGA---CTATTTTGGC
|||||
GTCGATTACGTGGAGAGCTA
X 10 20

7. US-09-555-342B-15' (1-25)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 22

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.18
Residue Identity = 40% Matches = 8 Mismatches = 12
Gaps = 0 Conservative Substitutions = 0

X 10 20 X
CCTCGTGAAGGTGACTATTTGGC
|||||
TCGTCTTCGCTCTCCTCAAT
X 10 20

8. US-09-555-342B-15' (1-25)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 19

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.18
Residue Identity = 40% Matches = 8 Mismatches = 12
Gaps = 0 Conservative Substitutions = 0

X 10 20 X
CCTCGTGAAGGTGACTATTTGGC
|||||
TCGTCTTCGCTCTCCTCAAT
X 10 20

9. US-09-555-342B-15' (1-25)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 5 Significance = 0.18
Residue Identity = 35% Matches = 5 Mismatches = 9
Gaps = 0 Conservative Substitutions = 0

10 X 20 X
CCTCGTGAAGGTGACTATTTGGC
|||||
TTGGAGTTGCTGTGTGTCAG
X 10 X 20

10. US-09-555-342B-15' (1-25)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.18
Residue Identity = 47% Matches = 10 Mismatches = 9
Gaps = 2 Conservative Substitutions = 0

X 10 20 X
CCTCGTGGAGGTGACTATTTTGGC
||| | | | | | | |
GTCRAAGGCTGAGAA--CGGGAA
X 10 20

11. US-09-555-342B-15' (1-25)
US-09-555-342B-6 Sequence 6, Application US/09555342B

Sequence 6, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.18
Residue Identity = 47% Matches = 10 Mismatches = 5
Gaps = 6 Conservative Substitutions = 0

X 10 X
CCTCGTGGAGGTGACTATTTTGGC
||| | | | | | | |
AAAGACCTC---ACCCT--CCATCT
X 10 20

12. US-09-555-342B-15' (1-25)
US-09-555-342B-4 Sequence 4, Application US/09555342B

Sequence 4, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.18

Residue Identity = 57% Matches = 12 Mismatches = 6
Gaps = 3 Conservative Substitutions = 0

X 10 X
CCTCGTGGAGGTGACTATTTTGGC
||| | | | | | | |
TGCCCAAGT--TCAGGT--CTCTTA
X 10 20

IntelliGenetics

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-09-555-342b-16-inv.res made by sdavid on Tue 26 Nov 102 15:55:30-PST.

Query sequence being compared: US-09-555-342B-16' (1-20)
 Number of sequences searched: 21
 Number of scores above cutoff: 12

Results of the initial comparison of US-09-555-342B-16' (1-20) with:
File : US09555342B.seq

| Item | Percentage of Correct Responses |
|------|---------------------------------|
| N | 100% |
| U | 100% |
| M | 100% |
| B | 100% |
| E | 100% |
| R | 100% |
| O | 100% |
| F | 100% |
| S | 100% |
| E | 100% |
| Q | 100% |
| U | 100% |
| E | 100% |
| N | 100% |
| C | 100% |
| E | 100% |
| S | 100% |

| Sequence Name | Description | Length | Score | Init. Opt. | Sig. Frame |
|----------------------|---------------------------|--------|-------|------------|------------|
| 1. US-09-555-342B-1 | Sequence 1, Application U | 3442 | 11 | 12 | 3.13 |
| 2. US-09-555-342B-1 | Sequence 15, Application | 25 | 6 | 6 | 1.39 |
| 3. US-09-555-342B-1 | Sequence 14, Application | 20 | 5 | 8 | 1.04 |
| 4. US-09-555-342B-2 | Sequence 22, Application | 20 | 4 | 9 | 0.69 |
| 5. US-09-555-342B-2 | Sequence 21, Application | 20 | 4 | 9 | 0.69 |
| 6. US-09-555-342B-1 | Sequence 19, Application | 20 | 4 | 9 | 0.69 |
| 7. US-09-555-342B-1 | Sequence 18, Application | 20 | 4 | 8 | 0.69 |
| 8. US-09-555-342B-1 | Sequence 10, Application | 20 | 4 | 10 | 0.69 |
| 9. US-09-555-342B-9 | Sequence 9, Application U | 20 | 4 | 6 | 0.69 |
| 10. US-09-555-342B-8 | Sequence 8, Application U | 20 | 4 | 5 | 0.69 |
| 11. US-09-555-342B-4 | Sequence 4, Application U | 20 | 4 | 7 | 0.69 |
| 12. US-09-555-342B-1 | Sequence 17, Application | 29 | 4 | 11 | 0.69 |

1. US-09-555-342B-16' (1-20)
US-09-555-342B-1 Sequence 1, Application US/09555342B

Sequence 1, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555, 342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO. 1
LENGTH: 3442
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (49)..(3183)

2. US-09-555-342B-16' (1-20)
US-09-555-342B-1 Sequence 15, Application US/09555342

Sequence 15, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
FILE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
TITLE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555.342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 15
LENGTH: 25

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 6 Significance = 1.39
Residue Identity = 66% Matches = 6 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

X 10 20
GACACGAGTTTCCCTGAAGG
|||||
GCCAAATAGTCACCTCCACGAGG
10 X 20 X

3. US-09-555-342B-16' (1-20)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 1.04
Residue Identity = 50% Matches = 9 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 20
GACACGAGTTTCCCTGAAGG
|||||
TTGGAGTTGT-GTGTGTCAG
X 10 X 20

4. US-09-555-342B-16' (1-20)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 22

LENGTH: 20

TYPE: DNA

SEQ ID NO 22
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.69
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 X
GACACGAGTTTCCCTGAAGG
|||||
TCGTC-TTCGCTCTCCTCAAT
X 10 20

5. US-09-555-342B-16' (1-20)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 21

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.69
Residue Identity = 55% Matches = 11 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 X
GAC-ACGAGTTTCCCTGAAGG
|||||
TCACTCGTGGTTT-CAGAGC
X 10 20

6. US-09-555-342B-16' (1-20)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 19

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.69
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10
GACACGAGTTTCTCTGAAGG
| | | | |
TCGTC-TTCGCTCTCTCAAT
X 10 20

7. US-09-555-342B-16' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 18

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.69
Residue Identity = 50% Matches = 9 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 20
GACACGAGTTTCTCTGAAGG
| | | | |
TTCAG-CTCTAGAGATTCC
X 10 X 20

8. US-09-555-342B-16' (1-20)
US-09-555-342B-1 Sequence 10, Application US/09555342B

Sequence 10, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.69
Residue Identity = 55% Matches = 11 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 X
GACACGA--GTTTCTCTGAAGG
| | | | |
TCCACCACTGTTGCTGTA
X 10 20

9. US-09-555-342B-16' (1-20)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.69
Residue Identity = 50% Matches = 8 Mismatches = 5
Gaps = 3 Conservative Substitutions = 0

X 10 20
GACACGAGT-TTCTCT--GAAGG
| | | | |
GTCAAGGCTGAGAACGGAA
X 10 X 20

10. US-09-555-342B-16' (1-20)
US-09-555-342B-8 Sequence 8, Application US/09555342B

Sequence 8, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 8

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 5 Significance = 0.69
Residue Identity = 31% Matches = 5 Mismatches = 11

CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 11 Significance = 0.48
Residue Identity = 42% Matches = 12 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

10 20 X
TGTGTGARCAYCAYACRTTCTTYCGTTT
||||| | | | |
TCCACCAC-CTGTGCTGCTGA
X 10 20

3. US-09-555-342B-17' (1-29)
US-09-555-342B-8 Sequence 8, Application US/09555342B

Sequence 8, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR APPLICATION NUMBER: PCT/JP98/05348
CURRENT FILING DATE: 2000-05-26
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 11 Significance = 0.48
Residue Identity = 28% Matches = 12 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 20 X
TGTGTGARCAYCAYACRTTCTTYCGTTT
||||| | | | |
ATGAACCTC-TTACCAGCTC
X 10 20

4. US-09-555-342B-17' (1-29)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR APPLICATION NUMBER: PCT/JP98/05348
CURRENT FILING DATE: 2000-05-26
PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.24
Residue Identity = 33% Matches = 11 Mismatches = 9
Gaps = 1 Conservative Substitutions = 0

10 20 X
TGTGTGARCAYCAYACRTTCTTYCGTTT
||||| | | | |
TCGTC-TTCGCTCTCCTCAAT
X 10 20

5. US-09-555-342B-17' (1-29)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR APPLICATION NUMBER: PCT/JP98/05348
CURRENT FILING DATE: 2000-05-26
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.24
Residue Identity = 33% Matches = 11 Mismatches = 9
Gaps = 1 Conservative Substitutions = 0

10 20 X
TGTGTGARCAYCAYACRTTCTTYCGTTT
||||| | | | |
TCGTC-TTCGCTCTCCTCAAT
X 10 20

6. US-09-555-342B-17' (1-29)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR APPLICATION NUMBER: PCT/JP98/05348
CURRENT FILING DATE: 2000-05-26
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 9 Significance = 0.24
Residue Identity = 22% Matches = 9 Mismatches = 9
Gaps = 0 Conservative Substitutions = 0

X 10 X
TGTGTGARCAYCAYACRTTCTTCGTTT
| | | | | | | | | |
TTGAGTGTGTGTGTCAG
X 10 20

7. US-09-555-342B-17' (1-29)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 0.24
Residue Identity = 35% Matches = 10 Mismatches = 6
Gaps = 4 Conservative Substitutions = 0

X 10 X 20
TGT-----GTGARCAYCAYACRTTCTTCGTTT
| | | | | | | | | |
GTCAGGCTGAGACGGAA
X 10 20

8. US-09-555-342B-17' (1-29)
US-09-555-342B-1 Sequence 15, Application US/09555342B

Sequence 15, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 15

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.24
Residue Identity = 28% Matches = 10 Mismatches = 15
Gaps = 0 Conservative Substitutions = 0

X 10 20 X
TGTGTGARCAYCAYACRTTCTTCGTTT
| | | | | | | | | |
GCCAAATAGTCACCTTCCACGAGG
X 10 20 X

9. US-09-555-342B-17' (1-29)
US-09-555-342B-1 Sequence 17, Application US/09555342B

Sequence 17, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 17

LENGTH: 29

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 14 Significance = 0.24
Residue Identity = 14% Matches = 14 Mismatches = 13
Gaps = 0 Conservative Substitutions = 0

X 10 20 X
TGTGTGARCAYCAYACRTTCTTCGTTT
| | | | | | | | | |
AAACGRAAGAAAGTGTGTCGTCWACACA
X 10 20 X

10. US-09-555-342B-17' (1-29)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 21

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.00
Residue Identity = 36% Matches = 11 Mismatches = 7
Gaps = 1 Conservative Substitutions = 0

10 X 20 X
TGTGTGARCAYCA-YACRTTCTTTCGTTT
||| ||| |||
TCACTTCGTGGTTTCAGAGC
X 10 20

10 20 X
TGTGTGARCAYCA-YACRTTCTTTCGTTT
||| ||| |||
CCTTCAGGAAAACTCGTGTC
X 10 20

11. US-09-555-342B-17' (1-29)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 18
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.00
Residue Identity = 23% Matches = 6 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

10 X 20 X
TGTGTGARCAYCA-YACRTTCTTTCGTTT
||| ||| |||
TTCGAGCTCCTAGAGATTGC
X 10 X 20

12. US-09-555-342B-17' (1-29)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 16
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.00
Residue Identity = 26% Matches = 9 Mismatches = 10
Gaps = 0 Conservative Substitutions = 0

PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 9 Significance = 1.02
Residue Identity = 47% Matches = 9 Mismatches = 10
Gaps = 0 Conservative Substitutions = 0

X 10 X
GCAATCTCTAGGAGCTGGAA
| | | | |
GTCGATTACGTGGAGAGCTA
X 10 20

3. US-09-555-342B-18' (1-20)
US-09-555-342B-4 Sequence 4, Application US/09555342B

Sequence 4, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 6 Significance = 1.02
Residue Identity = 58% Matches = 7 Mismatches = 4
Gaps = 1 Conservative Substitutions = 0

X X 20
GCA-ATCTCTAGGAGCTGGAA
| | | | |
TGCCCGAGTTCAGGTCCTCTTA
10 20

4. US-09-555-342B-18' (1-20)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 22
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.51
Residue Identity = 52% Matches = 10 Mismatches = 6
Gaps = 3 Conservative Substitutions = 0

X 10 X
GCAATC-TCTAGGAGCT--GGAA
| | | | |
TCSTCTTCGCTCTCTCTCAAT
X 10 20

5. US-09-555-342B-18' (1-20)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.51
Residue Identity = 45% Matches = 9 Mismatches = 10
Gaps = 1 Conservative Substitutions = 0

X 10 X
GCAATCTCTAGGAGCTGGAA
| | | | |
TCACT-TCGTGGTTTCAGAGC
X 10 20

6. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19

LENGTH: 20
TYPE: DNA

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.51
Residue Identity = 52% Matches = 10 Mismatches = 6
Gaps = 3 Conservative Substitutions = 0

X 10 X
GCAATC-TCTAGGAGCT--GGAA
||| ||| ||| |||
TCGCTCTTGCCTCTCTCAAT
X 10 20

7. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 18
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.51
Residue Identity = 52% Matches = 10 Mismatches = 9
Gaps = 0 Conservative Substitutions = 0

X 10 X
GCAATCTCTAGGAGCTGGAA
||| ||| ||| |||
TTCACGCTCTAGAGATTGC
X 10 20

8. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 16
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.51
Residue Identity = 50% Matches = 9 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 X
GCAATCTCTAGG--AGCTGGAA
||| ||| ||| |||
CCTTCAGGAAGAACTCGTGTCTC
X 10 20

9. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.51
Residue Identity = 58% Matches = 7 Mismatches = 5
Gaps = 0 Conservative Substitutions = 0

10 X 20
GCAATCTCTAGGAGCTGGAA
||| ||| ||| |||
TTGGAGTTGTGTGTGGTCAG
X 10 X 20

10. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-50250S
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.51
Residue Identity = 50% Matches = 9 Mismatches = 7

GCAATCTCTAGGAGCTGGAA
||| |||| |
ATCAGACCCAGCTCCCAAG
X 10 X 20

Gaps = 2 Conservative Substitutions = 0

X 10 X
GCAATCTCTAGG--AGCTGGAA
|| ||| ||| |
CCTTCAGGAAACTCGTGTC
X 10 20

11. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 12, Application US/09555342B

Sequence 12, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.51
Residue Identity = 45% Matches = 9 Mismatches = 7
Gaps = 4 Conservative Substitutions = 0

X 10 20
GCAATCTCTAGGAGCTGGAA
||| | |||| |
CACAGACCC----AGCTCCCAAC
X 10 X 20

12. US-09-555-342B-18' (1-20)
US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.51
Residue Identity = 47% Matches = 8 Mismatches = 9
Gaps = 0 Conservative Substitutions = 0

X 10 X 20

PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 7 Optimized Score = 11 Significance = 0.94
Residue Identity = 75% Matches = 12 Mismatches = 2
Gaps = 2 Conservative Substitutions = 0

X 10 X X 20
ATT--GAGGAGCGGAGACGA
||| | ||||| |
GTCGATTACGTGGAGAGCTA
X 10 20

3. US-09-555-342B-19' (1-20)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 21

LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 7 Significance = 0.47
Residue Identity = 56% Matches = 9 Mismatches = 3
Gaps = 4 Conservative Substitutions = 0

X 10 X 20
ATTGAGG---AGACCGAGACGA
| | | | |
TCACCTCGTGGTTTCAGAGC
X 10 20

4. US-09-555-342B-19' (1-20)
US-09-555-342B-6 Sequence 6, Application US/09555342B

Sequence 6, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 6

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 6 Significance = 0.47
Residue Identity = 35% Matches = 6 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGGAGACGA
| | | | |
AAAGACCTCACCCCTCCATCT
X 10 X 20

5. US-09-555-342B-19' (1-20)
US-09-555-342B-3 Sequence 3, Application US/09555342B

Sequence 3, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.47
Residue Identity = 50% Matches = 12 Mismatches = 8
Gaps = 4 Conservative Substitutions = 0

X 10 20
ATTGAGGAGAGCG---AAGACGA
| | | | |
CATACCGGTAAGTGGGGCAAGACTG
X 10 20 X

6. US-09-555-342B-19' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 18

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.23
Residue Identity = 52% Matches = 10 Mismatches = 6
Gaps = 3 Conservative Substitutions = 0

X 10 20

ATTGAGGAGAGCGAAGACGA

|| || || || || || ||

TT--CCAGCTCTAGAGATTGC

X 10 20

7. US-09-555-342B-19' (1-20)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 16

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 20

ATTGAGGAGAGCGAAGACGA

|| || || || || || ||

CCTTCAGGAAACTCGTGTC

X 10 20

8. US-09-555-342B-19' (1-20)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 45% Matches = 9 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

X 10 20

ATTGAGGAGAGCGAAGACGA

|| || || || || || ||

TTGGAGTTGTGTGGTCAG

X 10 20

9. US-09-555-342B-19' (1-20)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 13

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10 20

ATTGAGGAGAGCGAAGACGA

|| || || || || || ||

CCTTCAGGAAACTCGTGTC

X 10 20

10. US-09-555-342B-19' (1-20)
US-09-555-342B-1 Sequence 12, Application US/09555342B

Sequence 12, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.23

Residue Identity = 37% Matches = 10
Gaps = 0 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGAAGACGA
||| |
CACAGACCGAGCTCCAAAC
X 10 X 20

X 10 X
ATTGAGGAGCGAAGACGA
||| |
GTCAAGCCTGAGAACGGGAA
X 10 20

11. US-09-555-342B-19' (1-20)
US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555, 342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 0.23
Residue Identity = 43% Matches = 9
Gaps = 0 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGAAGACGA
||| |
ATCAGACCCAGCTCCAAAG
X 10 X 20

12. US-09-555-342B-19' (1-20)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555, 342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 0.23
Residue Identity = 47% Matches = 10
Gaps = 0 Conservative Substitutions = 0

CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.72
Residue Identity = 60% Matches = 12 Mismatches = 5
Gaps = 3 Conservative Substitutions = 0

```
X      10      X
TCCGTC--CGC-CTGCTGTTATTACCG
||||| ||| ||| |||
TCGCTTCGCTCTCTCTCAAT
X      10
```

3. US-09-555-342B-20' (1-23)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555, 342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 19

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.72
Residue Identity = 60% Matches = 12 Mismatches = 5
Gaps = 3 Conservative Substitutions = 0

```
X      10      X
TCCGTC--CGC-CTGCTGTTATTACCG
||||| ||| ||| |||
TCGCTTCGCTCTCTCTCAAT
X      10
```

4. US-09-555-342B-20' (1-23)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555, 342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14

NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.72
Residue Identity = 40% Matches = 8 Mismatches = 12
Gaps = 0 Conservative Substitutions = 0

```
X      10      20      X
TCCGTCGCGCTGCTGTTACCG
| || ||| |||
TTGGAGTTGTGTGTGTCAG
X      10      20
```

5. US-09-555-342B-20' (1-23)
US-09-555-342B-1 Sequence 12, Application US/09555342B

Sequence 12, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555, 342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.72
Residue Identity = 33% Matches = 6 Mismatches = 12
Gaps = 0 Conservative Substitutions = 0

```
X      10      20      X
TCCGTCGCGCTGCTGTTACCG
| | | | |
CACAGACCCAGCTCCCAAC
X      10      20
```

6. US-09-555-342B-20' (1-23)
US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555, 342B

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.72
Residue Identity = 38% Matches = 7 Mismatches = 9
Gaps = 2 Conservative Substitutions = 0

10 X
TCCGTCGCGCTG--CTGTTACCCG
|||||
ATCAGACCCAGCTCCCAAG
X 10 20

7. US-09-555-342B-20' (1-23)
US-09-555-342B-1 Sequence 10, Application US/09555342B

Sequence 10, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 11 Significance = 0.72
Residue Identity = 57% Matches = 11 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

X 10 20 X
TCCGTCGCGCTGCTGTTACCCG
|||||
TCCACACCCCTGTTGCTGTA
X 10 20

8. US-09-555-342B-20' (1-23)
US-09-555-342B-7 Sequence 7, Application US/09555342B

Sequence 7, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 7

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.72
Residue Identity = 45% Matches = 9 Mismatches = 10
Gaps = 1 Conservative Substitutions = 0

X 10 20 X
TCCGTCGCGCTGCTGTTACCCG
|||||
GT-CGATTACGTCGAGAGCTA
X 10 20

9. US-09-555-342B-20' (1-23)
US-09-555-342B-6 Sequence 6, Application US/09555342B

Sequence 6, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 6

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.72
Residue Identity = 35% Matches = 7 Mismatches = 13
Gaps = 0 Conservative Substitutions = 0

X 10 X
TCCGTCGCGCTGCTGTTACCCG
|||||
AAAGACCTCACCCTCCATCT
X 10 20

10. US-09-555-342B-20' (1-23)
US-09-555-342B-5 Sequence 5, Application US/09555342B

Sequence 5, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 5

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.72
Residue Identity = 47% Matches = 9 Mismatches = 10
Gaps = 0 Conservative Substitutions = 0

X 10 20 X
TCCGTCGCGCTGCTTGTACCG
| | | | |
TGCTACTTCATCGACCCAT
X 10 20

X 10 20 X
TCCGTCGCGCTGCTTGTACCG
| | | | |
AAACGAAAGAAAGTGTGTGTCWACACA
X 10 20 X

11. US-09-555-342B-20' (1-23)
US-09-555-342B-3 Sequence 3, Application US/09555342B

Sequence 3, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 25
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.72
Residue Identity = 46% Matches = 7 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

10 20 X
TCCGTCGCGCTGCTTGTACCG
| | | | |
CATACCGGTAAGTGGGCAAGACTG
X 10 20

12. US-09-555-342B-20' (1-23)
US-09-555-342B-1 Sequence 17, Application US/09555342B

Sequence 17, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 17
LENGTH: 29
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 10 Significance = 0.72
Residue Identity = 34% Matches = 10 Mismatches = 13
Gaps = 0 Conservative Substitutions = 0

PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 8 Optimized Score = 8 Significance = 1.80
Residue Identity = 80% Matches = 8 Mismatches = 2
Gaps = 0 Conservative Substitutions = 0

X X 20
GCTCTGAACACCAAGTGA
|||||
CACAGACCCAGCTCCCAAC
10

3. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 15, Application US/09555342B

Sequence 15, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 15

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 6 Optimized Score = 9 Significance = 1.08
Residue Identity = 52% Matches = 9 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

X 10 X 20
GCTCTGAACACCAAGTGA
||| |||||
GCCAAATAGTCACCTTCACGAGG
10 20 X

4. US-09-555-342B-21' (1-20)
US-09-555-342B-2 Sequence 22, Application US/09555342B

Sequence 22, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 22

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 7 Significance = 0.72
Residue Identity = 56% Matches = 9 Mismatches = 3
Gaps = 4 Conservative Substitutions = 0

X 10 X 20
GCTCTGAACACCAAGTGA
|||||
TCGCTCTCGCTCT---CCTCAAT
10

5. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 19, Application US/09555342B

Sequence 19, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 19

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 7 Significance = 0.72
Residue Identity = 56% Matches = 9 Mismatches = 3
Gaps = 4 Conservative Substitutions = 0

X 10 X 20
GCTCTGAACACCAAGTGA
|||||
TCGCTCTCGCTCT---CCTCAAT
10

6. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 10, Application US/09555342B

Sequence 10, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 8 Significance = 0.72
Residue Identity = 47% Matches = 9 Mismatches = 9
Gaps = 1 Conservative Substitutions = 0

X 10
GCTCTGAAACACGAG-TGA
||| ||| |||
TCCACCACCTGTGCTGTA
X 10 20

7. US-09-555-342B-21' (1-20)
US-09-555-342B-3 Sequence 3, Application US/09555342B

Sequence 3, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 9 Significance = 0.72
Residue Identity = 60% Matches = 9 Mismatches = 6
Gaps = 0 Conservative Substitutions = 0

X 10 20
GCTCTGAAACACGAGTGA
||| ||| |||
CATACCGCTAAGTGGGCAAGACTG
X 10 X 20

8. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 17, Application US/09555342B

Sequence 17, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 17

LENGTH: 29

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.72
Residue Identity = 36% Matches = 11 Mismatches = 7
Gaps = 1 Conservative Substitutions = 0

X 10 X
GCTCTGAAACACGAGTGA
||| ||| |||
AAACGGAAGAYG-TRTGRGTGTCWACACA
X 10 20

9. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 18

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.36
Residue Identity = 45% Matches = 9 Mismatches = 10
Gaps = 1 Conservative Substitutions = 0

X 10 X
GCTCTGAAACACGAGTGA
||| ||| |||
TTCCAGCTCCTAGAGATTGC
X 10 20

10. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B

GENERAL INFORMATION:

APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA

APPLICANT: KATO, Yukio

APPLICANT: KAWAMOTO, Takeshi

APPLICANT: KOYANO, Yasuhiko

TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene

FILE REFERENCE: 046124-5025US

CURRENT APPLICATION NUMBER: US/09/555,342B

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: PCT/JP98/05348

PRIOR FILING DATE: 1998-11-27

NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 16

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.36
Residue Identity = 55% Matches = 11 Mismatches = 7

GCTCTGAAACACGACGAAGTGA
|||||
ATCAGACCCAGCTCCCAAG
10 20

Gaps = 2 Conservative Substitutions = 0

X 10 X
GCTC-TGAAACACGACGAAGTGA
|| |||||
CCTTCAGGAAACTCG-TGTC
X 10 20

11. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.36
Residue Identity = 55% Matches = 11 Mismatches = 7
Gaps = 2 Conservative Substitutions = 0

X 10 X
GCTC-TGAAACACGACGAAGTGA
|| |||||
CCTTCAGGAAACTCG-TGTC
X 10 20

12. US-09-555-342B-21' (1-20)
US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.36
Residue Identity = 70% Matches = 7 Mismatches = 3
Gaps = 0 Conservative Substitutions = 0

X X 20

PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 7 Optimized Score = 11 Significance = 0.94
Residue Identity = 75% Matches = 12 Mismatches = 2
Gaps = 2 Conservative Substitutions = 0

X 10 X 20
ATT--GAGGAGCGAAGACGA
||| | ||||| |
GTCGATTACGTGGAGAGCTA
X 10 20

3. US-09-555-342B-22' (1-20)
US-09-555-342B-2 Sequence 21, Application US/09555342B

Sequence 21, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 7 Significance = 0.47
Residue Identity = 56% Matches = 9 Mismatches = 3
Gaps = 4 Conservative Substitutions = 0

X 10 X 20
ATTGAGG----AGAGCGAAGACGA
||| | |||||
TCACCTTCGTGGTTTCAGAGC
X 10 20

4. US-09-555-342B-22' (1-20)
US-09-555-342B-6 Sequence 6, Application US/09555342B

Sequence 6, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 20
TYPE: DNA

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 6 Significance = 0.47
Residue Identity = 35% Matches = 6 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGGAAGACGA
||| | ||||| |
AAAGACCTCACCCCTCCATCT
X 10 X 20

5. US-09-555-342B-22' (1-20)
US-09-555-342B-3 Sequence 3, Application US/09555342B

Sequence 3, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3

LENGTH: 25
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 5 Optimized Score = 10 Significance = 0.47
Residue Identity = 50% Matches = 12 Mismatches = 8
Gaps = 4 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGG---AAGACGA
||| | |||||
CATACCGGTAAGTGGGGCAAGACTG
X 10 20 X

6. US-09-555-342B-22' (1-20)
US-09-555-342B-1 Sequence 18, Application US/09555342B

Sequence 18, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 18
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 8 Significance = 0.23
Residue Identity = 52% Matches = 10 Mismatches = 6
Gaps = 3 Conservative Substitutions = 0

X 10
ATTGAGGAGAGCGAAGACGA
||| ||| ||| |||
TT--CCAGCTCCTAGA-GATTCG
X 10

7. US-09-555-342B-22' (1-20)
US-09-555-342B-1 Sequence 16, Application US/09555342B

Sequence 16, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 16
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10
ATTGAGGAGAGC-GAAGACGA
||| ||| ||| |||
CCTTCAGGAAACTCGTGTC
X 10

8. US-09-555-342B-22' (1-20)
US-09-555-342B-1 Sequence 14, Application US/09555342B

Sequence 14, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 45% Matches = 9 Mismatches = 11
Gaps = 0 Conservative Substitutions = 0

X 10
ATTGAGGAGAGCGAAGACGA
||| ||| ||| |||
TTGGAGTTGTGTGTGGTCAG
X 10

9. US-09-555-342B-22' (1-20)
US-09-555-342B-1 Sequence 13, Application US/09555342B

Sequence 13, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 52% Matches = 10 Mismatches = 8
Gaps = 1 Conservative Substitutions = 0

X 10
ATTGAGGAGAGC-GAAGACGA
||| ||| ||| |||
CCTTCAGGAAACTCGTGTC
X 10

10. US-09-555-342B-22' (1-20)
US-09-555-342B-1 Sequence 12, Application US/09555342B

Sequence 12, Application US/09555342B

GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KAWAMOTO, Takeshi
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 12
LENGTH: 20

TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 6 Significance = 0.23

Residue Identity = 37% Matches = 10
Gaps = 0 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGGAAGACGA
| | | | |
CACAGACCCAGCTCCCAAC
X 10 X 20

X 10 X
ATTGAGGAGCGGAAGACGA
| | | | |
GTCAAGGCTGAGAACGGGAA
X 10 20

11. US-09-555-342B-22' (1-20)
US-09-555-342B-1 Sequence 11, Application US/09555342B

Sequence 11, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 7 Significance = 0.23
Residue Identity = 43% Matches = 9
Gaps = 0 Conservative Substitutions = 0

X 10 20
ATTGAGGAGCGGAAGACGA
| | | | |
ATCAGACCCAGCTCCCAAG
X 10 X 20

12. US-09-555-342B-22' (1-20)
US-09-555-342B-9 Sequence 9, Application US/09555342B

Sequence 9, Application US/09555342B
GENERAL INFORMATION:
APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
APPLICANT: KATO, Yukio
APPLICANT: KAWAMOTO, Takeshi
APPLICANT: KOYANO, Yasuhiko
TITLE OF INVENTION: Human Fetus Chondrocyte-Derived Gene
FILE REFERENCE: 046124-5025US
CURRENT APPLICATION NUMBER: US/09/555,342B
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: PCT/JP98/05348
PRIOR FILING DATE: 1998-11-27
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 9
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: probe

Initial Score = 4 Optimized Score = 9 Significance = 0.23
Residue Identity = 47% Matches = 10
Gaps = 0 Conservative Substitutions = 0